

FIG. 1

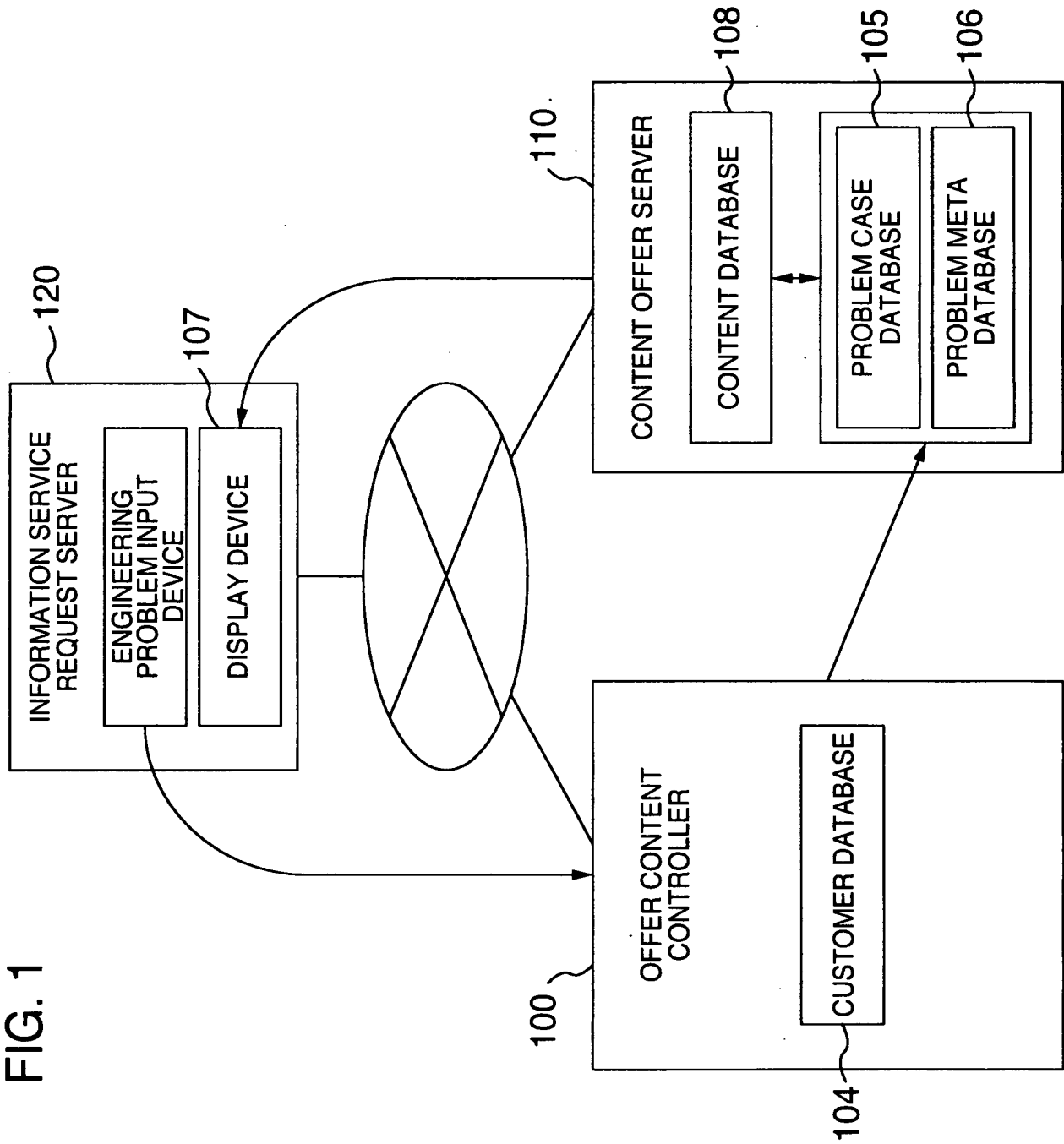


FIG. 2

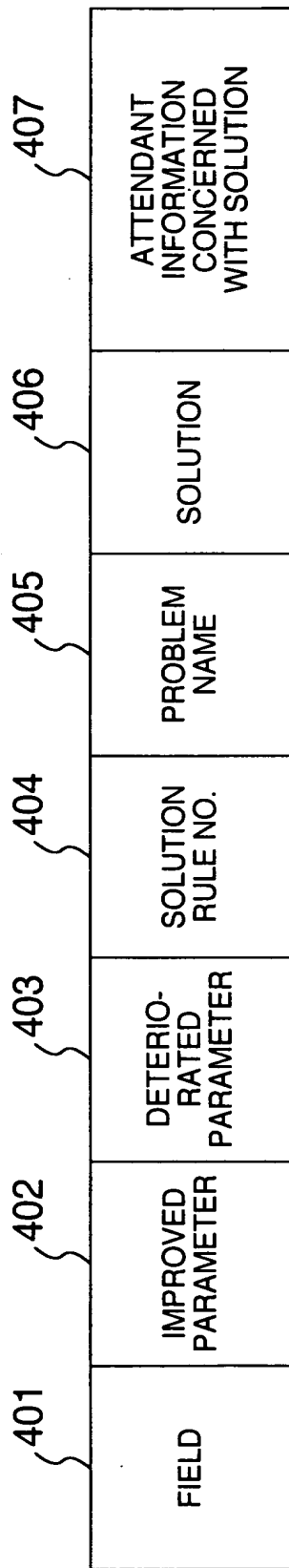


FIG. 3

140, 130

IMPROVED PARAMETER	DETERIORATED PARAMETER	1 WEIGHT OF MOVING OBJECT	2 WEIGHT OF STILL OBJECT	3 LENGTH OF MOVING OBJECT	4 LENGTH OF STILL OBJECT	5 AREA OF MOVING OBJECT	6 AREA OF STILL OBJECT	7 VOLUME OF MOVING OBJECT	8 VOLUME OF STILL OBJECT	9 VELOC
1 WEIGHT OF MOVING OBJECT			-	15,08,29,34	-	29,17,38,34	-	29,02,40,28	-	02,08,15
2 WEIGHT OF STILL OBJECT		-		-	10,01,29,35	-	35,30,13,02	-	05,35,14,02	-
3 LENGTH OF MOVING OBJECT		15,08,29,34	-		-	15,17,04	-	07,17,04,35	-	13,04
4 LENGTH OF STILL OBJECT		-	38,28,40,29	-		-	17,07,10,40	-	35,08,02,14	-
5 AREA OF MOVING OBJECT		02,17,29,04	-	14,15,18,04	-		-	07,14,17,04	-	29,30,
6 AREA OF STILL OBJECT		-	30,02,14,18	-	26,07,09,39	-		-	-	-
7 VOLUME OF MOVING OBJECT		02,25,29,40	-	01,07,35,04	-	10,07,04,17	-		-	26,04,3
8 VOLUME OF STILL OBJECT		-	35,10,19,14	19,14	35,08,02,14	-	-	-		-
9 VELOCITY		02,28,13,38	-	13,14,08	-	29,30,34	-	07,29,34	-	
10 FORCE		08,01,37,18	18,13,01,28	17,19,09,36	28,01	19,10,15	01,18,36,37	15,09,12,37	02,36,18,37	13,28,15
11 STRESS PRESSURE		10,36,37,40	13,29,10,18	35,10,36	35,01,14,16	10,15,36,28	10,15,36,37	06,35,10	35,34	06,35,34
12 SHAPE		08,10,29,04	15,10,26,03	29,34,05,04	13,14,10,07	06,34,04,10	-	14,04,15,22	07,02,35	35,15,34
13 STABILITY OF STRUCTURE OF SUBSTANCE OBJECT		21,35,02,39	26,39,01,40	13,15,01,28	37	02,11,13	39	28,10,19,39	34,28,35,40	33,15,28
14 STRENGTH		01,08,40,15	40,26,27,01	-	15,14,28,26	03,34,40,29	09,40,28	10,15,14,07	09,14,17,15	08,13,26
15 DURATION OF ACTION OF MOVING OBJECT		18,05,34,31	-	02,19,09	-	03,17,19	-	10,02,19,30	-	03,35,
16 DURATION OF ACTION OF STILL OBJECT		-	06,27,19,16	-	01,40,35	-	-	35,34,38	-	-
17 TEMPERATURE		36,22,06,38	22,35,32		15,19,09	03,35,39,18	35,38	34,39,40,18	35,06,04	02,28,
18 LUMINANCE BRIGHTNESS							-	02,13,10		10,1

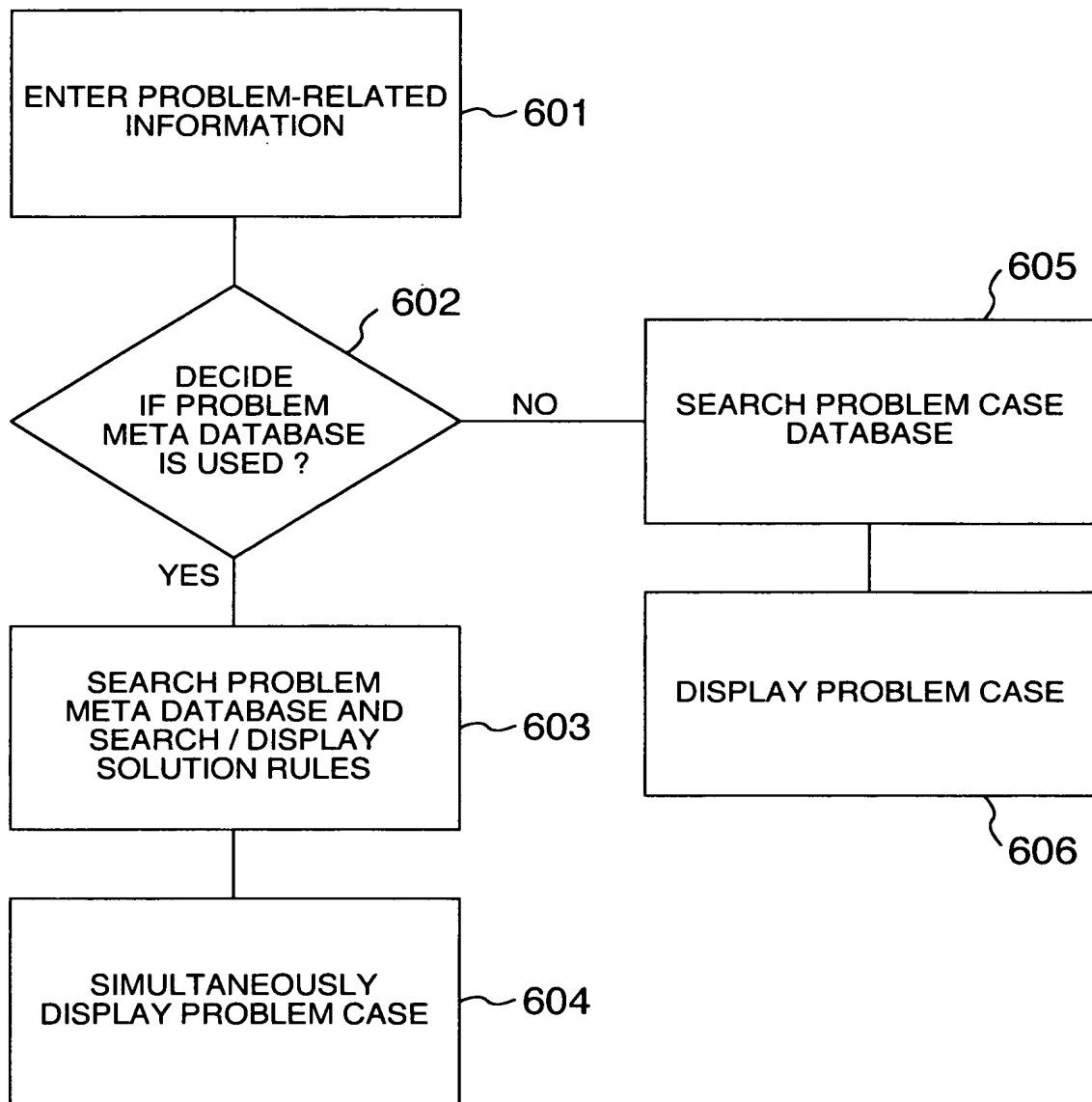
FIG. 4

NO.	TYPES OF RULES	NO.	TYPES OF RULES
1	RULE OF DIVISION	21	RULE OF SUPER FAST EXECUTION
2	RULE OF REMOVAL / EXTRACTION	22	RULE OF GOOD COMING OUT OF EVIL
3	RULE OF LOCAL QUALITY	23	RULE OF FEEDBACK
4	RULE OF ASYMMETRY	24	RULE OF INTERMEDIACY
5	RULE OF JOINING	25	RULE OF SELF SERVICE
6	RULE OF VERSATILITY	26	RULE OF COPY
7	RULE OF NESTING	27	RULE OF MERIT OF USING INEXPENSIVE SHORT LIFE RATHER THAN EXPENSIVE LONG LIFE
8	RULE OF BALANCE	28	RULE OF REPLACEMENT OF MECHANICAL SYSTEM
9	RULE OF PREOCCUPATION COUNTERACTANT	29	RULE OF AIR PRESSURE AND LIQUID PRESSURE
10	RULE OF PREOCCUPATION ACTION	30	RULE OF USING THIN FILM
11	RULE OF PROTECTION IN ADVANCE	31	RULE OF USING POROUS MATERIAL
12	RULE OF EQUIPOTENTIAL	32	RULE OF USING DISCOLORATION
13	RULE OF REVERSE ASSOCIATION	33	RULE OF HOMOGENEITY
14	RULE OF CURVED LINE / CURVED SURFACE	34	RULE OF REJECTION / REPRODUCTION OF COMPONENT
15	RULE OF DYNAMIC PROPERTY	35	RULE OF CHANGING CONDENSED CONDITION
16	RULE OF ABOUT	36	RULE OF PHASE CHANGE
17	RULE OF TRANSITION TO OTHER DIMENSION	37	RULE OF THERMAL EXPANSION
18	RULE OF USE OF MECHANICAL VIBRATION	38	RULE OF USING HIGHLY CONCENTRATED OXYGEN
19	RULE OF PERIODIC ACTION	39	RULE OF USE OF INACTIVE ATMOSPHERE
20	RULE OF CONTINUING USEFUL EFFECT	40	RULE OF USING COMPOSITE MATERIAL

1030024250



FIG. 6



108080"/24E2660

FIG. 7

IMPROVED PARAMETER:
LENGTH OF MOVING OBJECT
DETERIORATED PARAMETER:
VOLUME OF MOVING OBJECT

RULE:
NO.7 RULE OF NESTING
NO. 17 RULE OF TRANSITION TO OTHER DIMENSION
NO.4 RULE OF ASYMMETRY
NO.35 RULE OF PARAMETER CHANGE

NO.	EXAMPLES OF SOLUTION	RULE NO.
1	MAKE FESCUE NESTED	7
2	MAKE FESCUE OPTICAL POINTER	17
3	.	.
4	.	.
5	.	.
6	.	.
7	.	.
8	.	.
9	.	.

FIG. 8

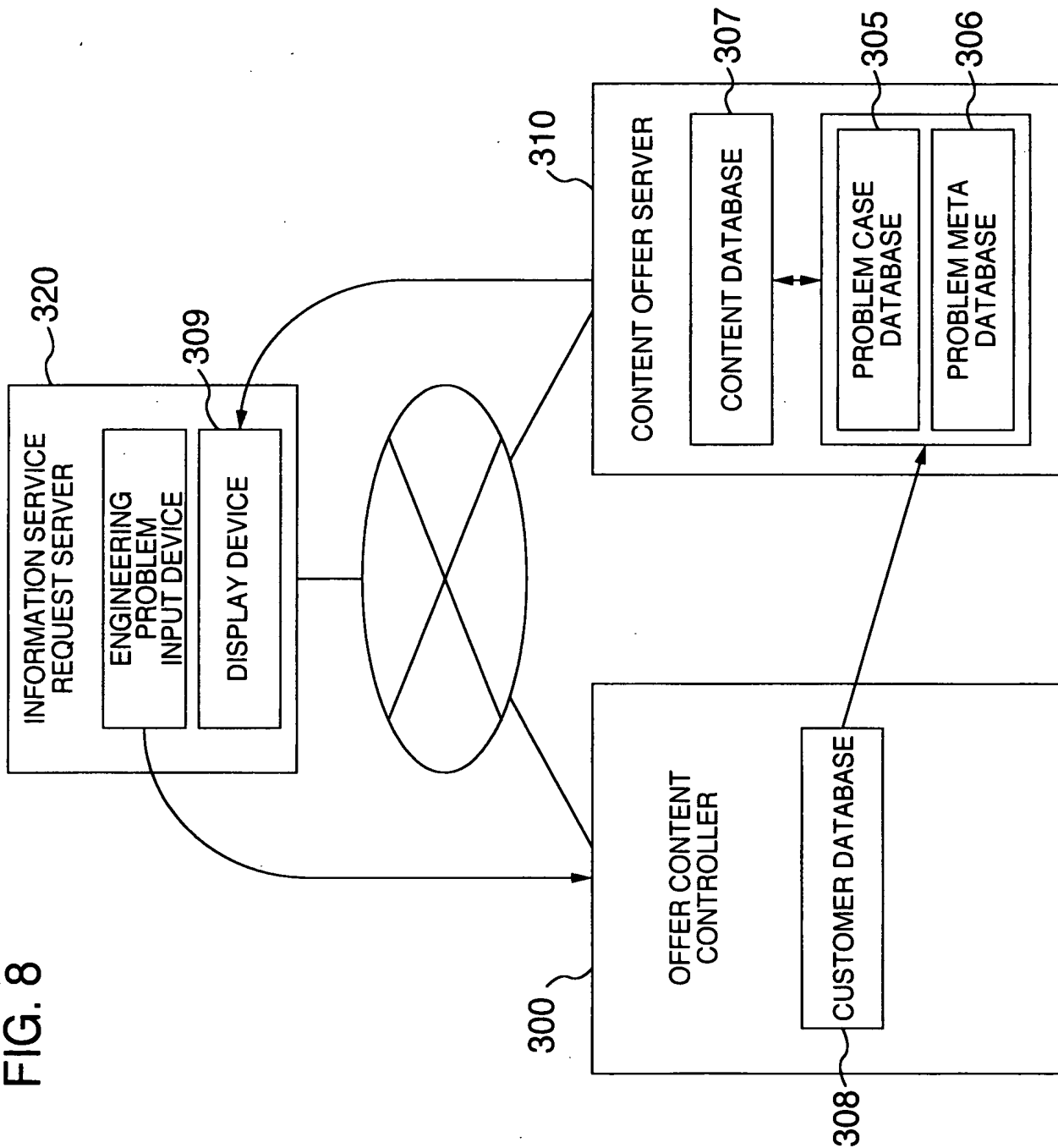
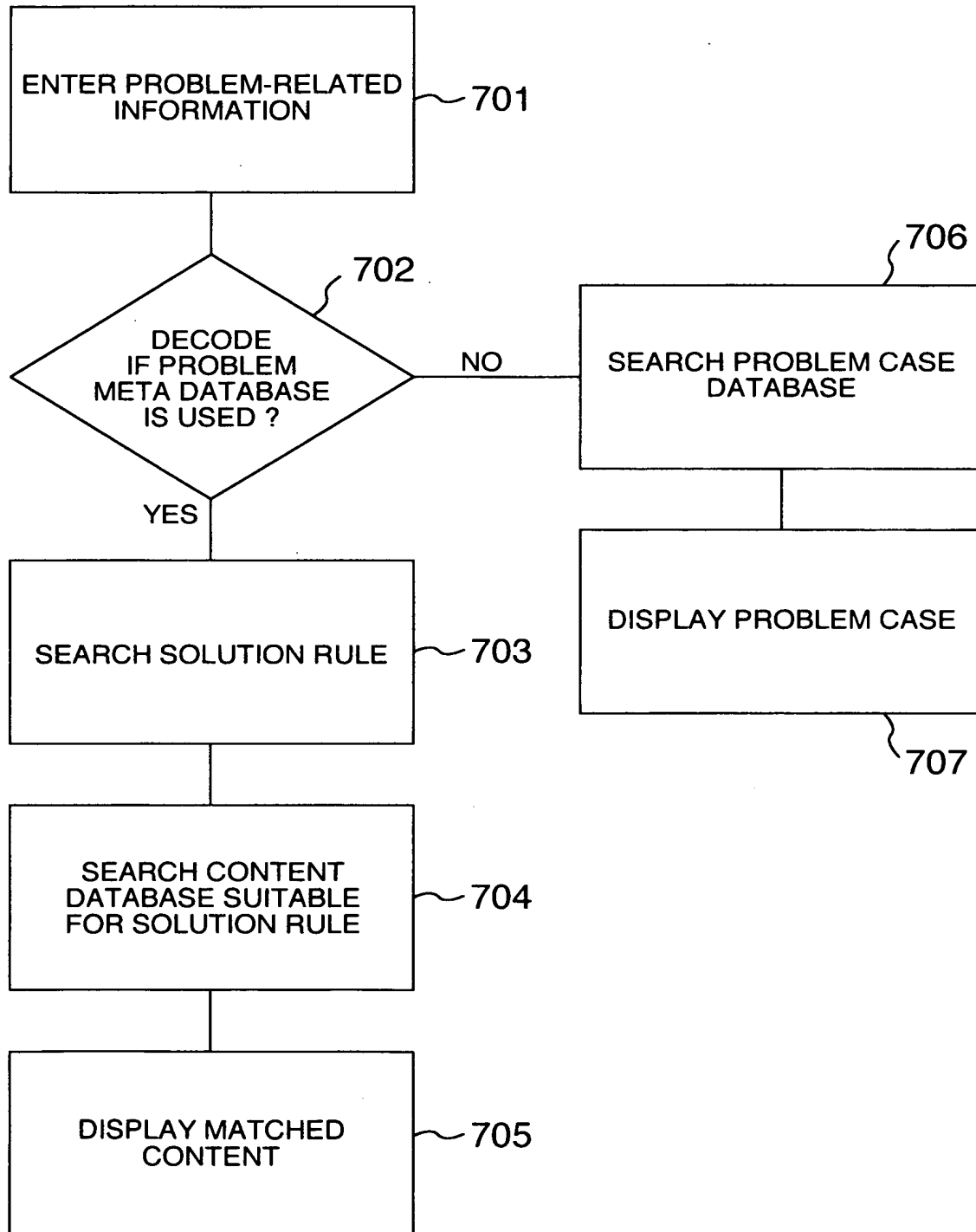


FIG. 9



09923427-080801

FIG. 10

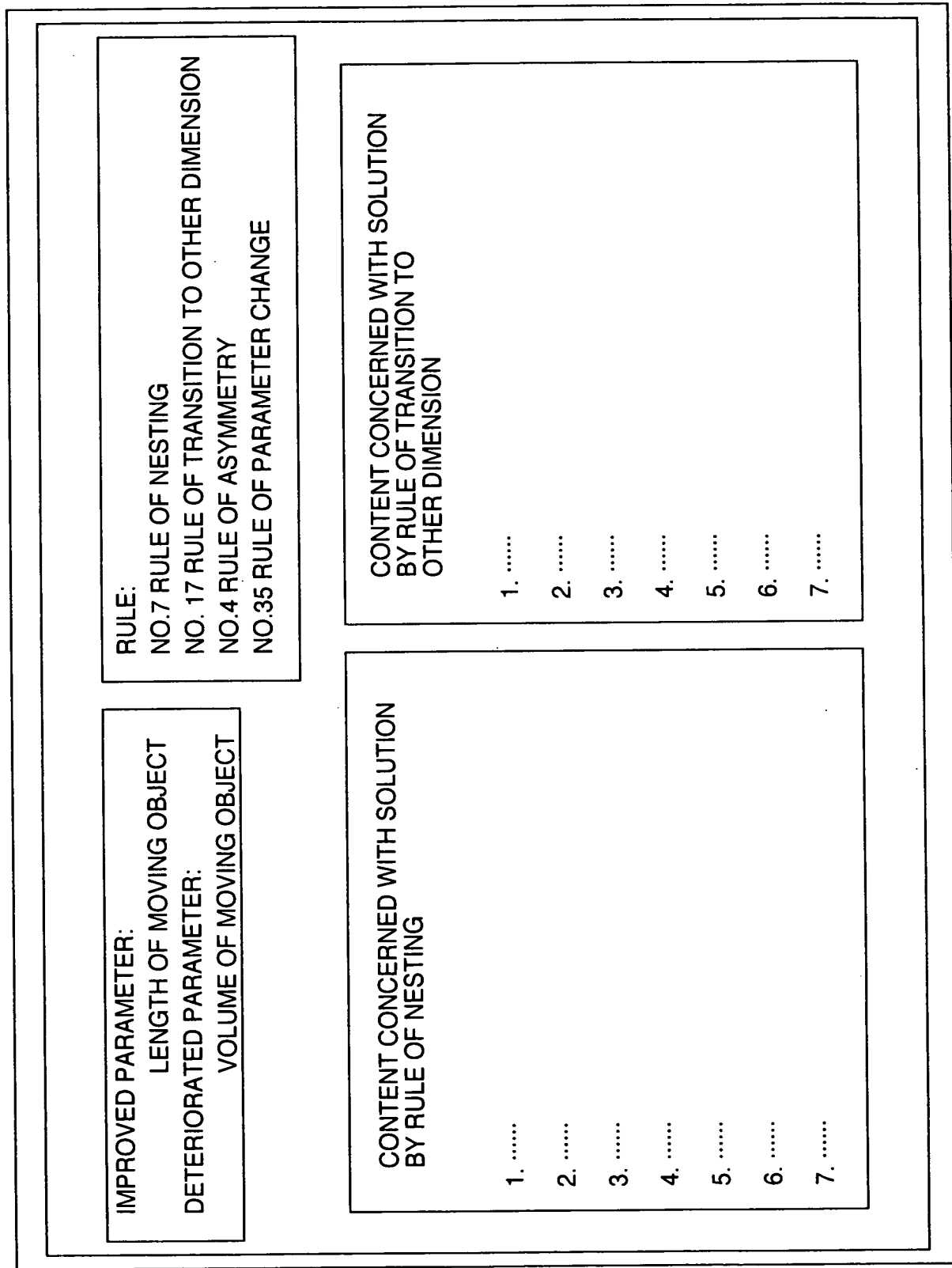
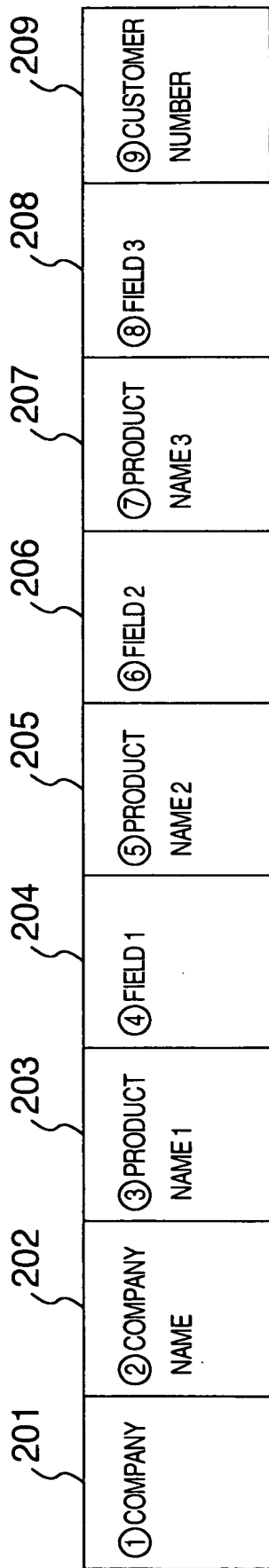
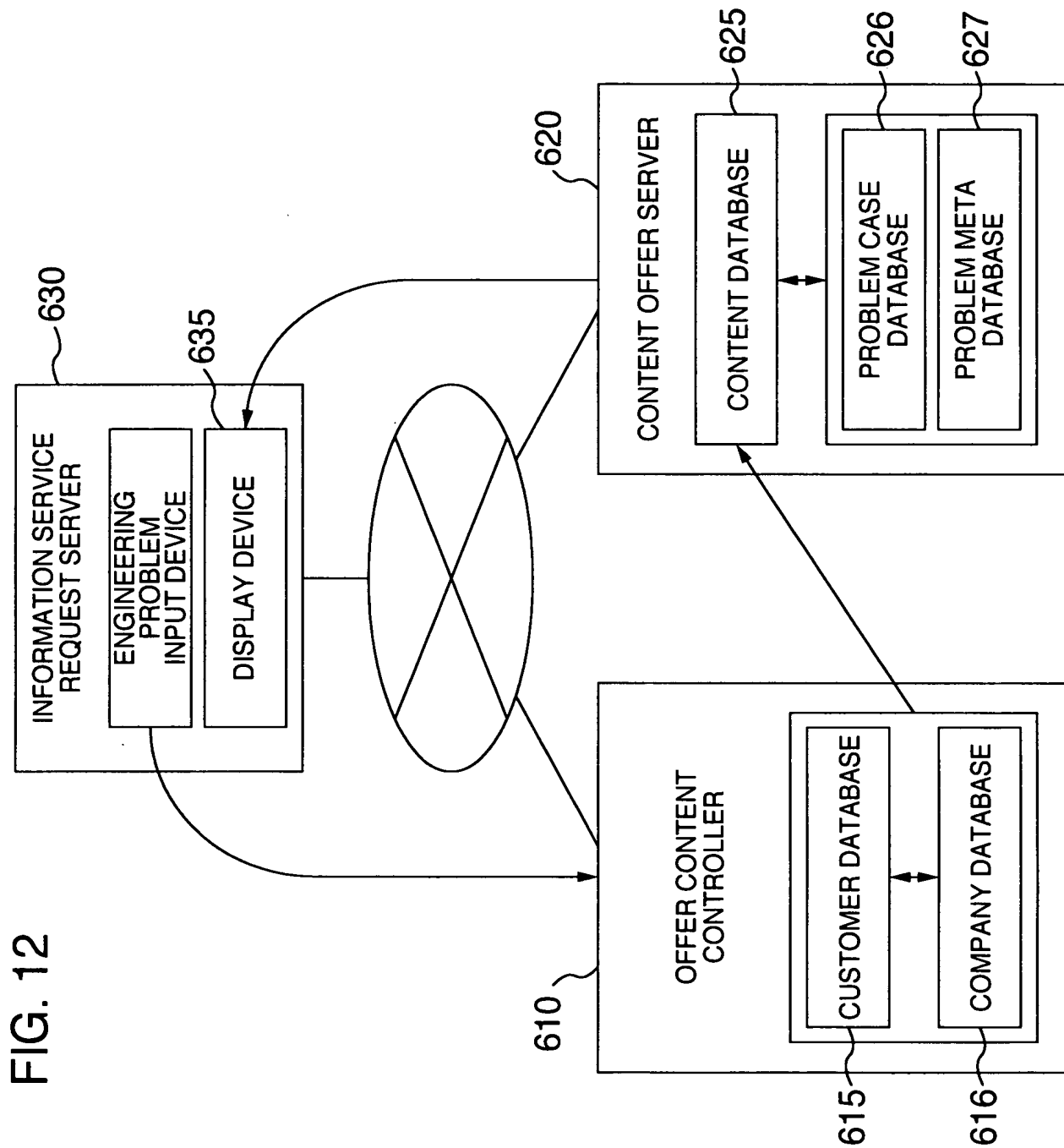


FIG. 11





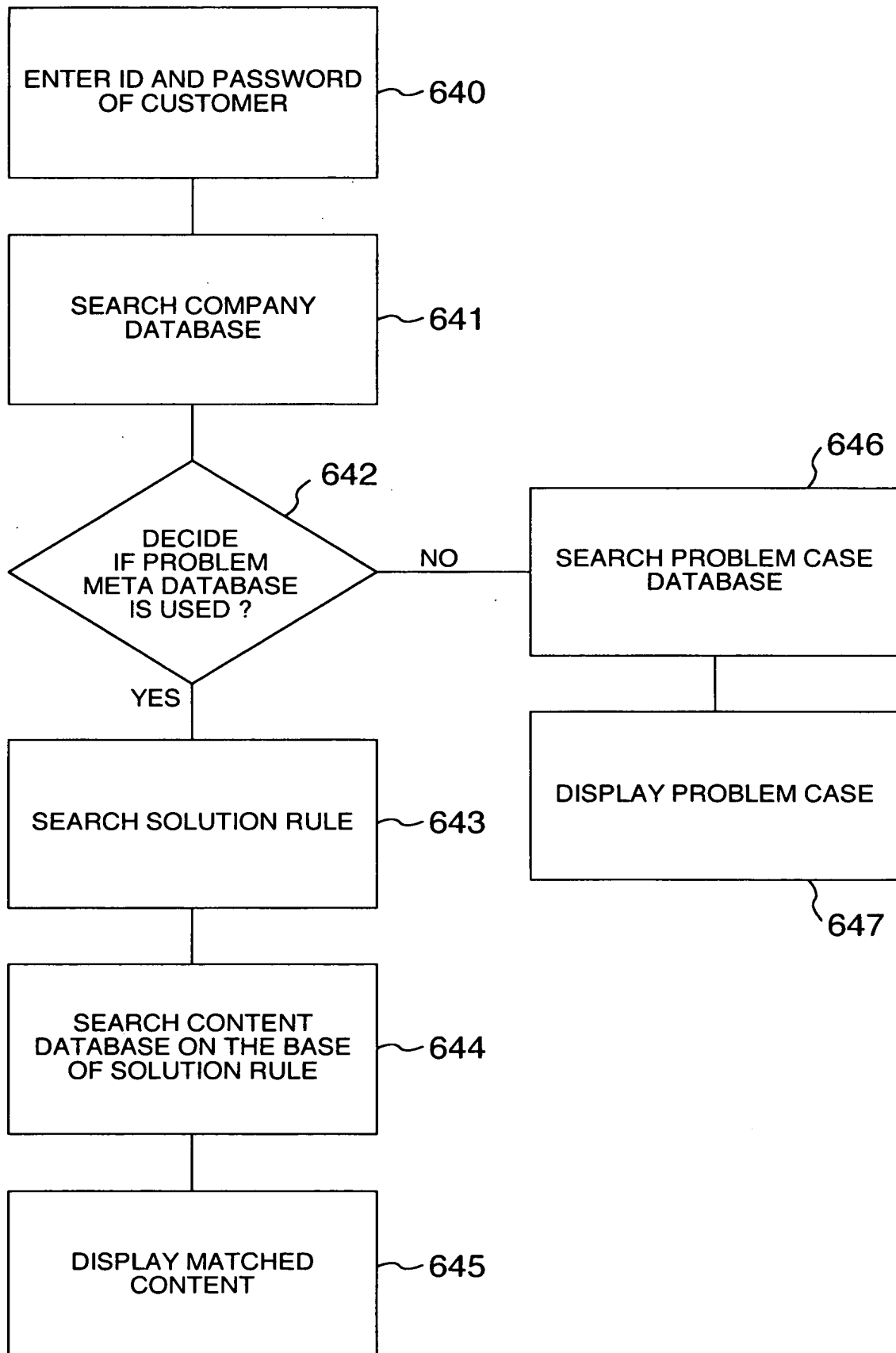


FIG. 14

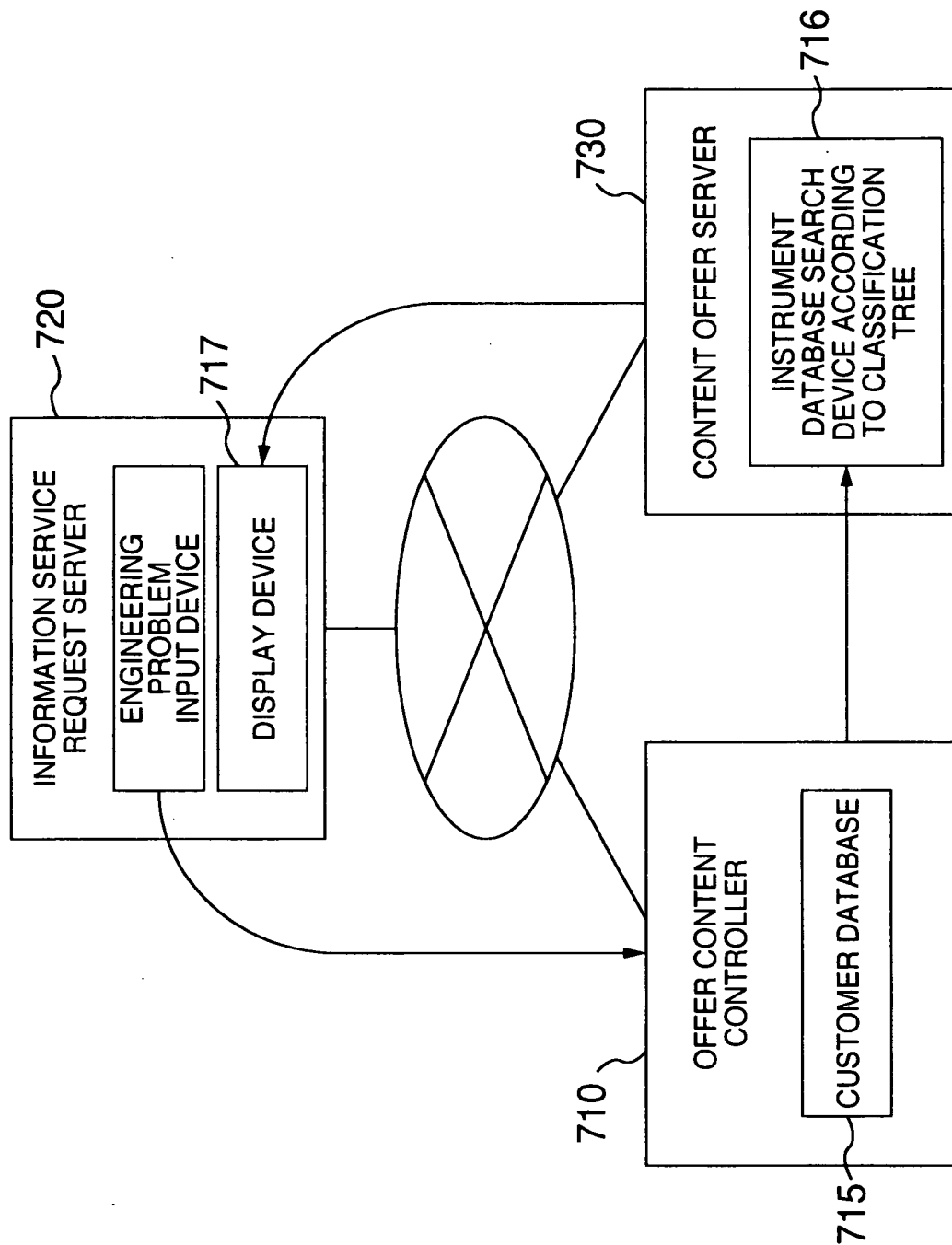
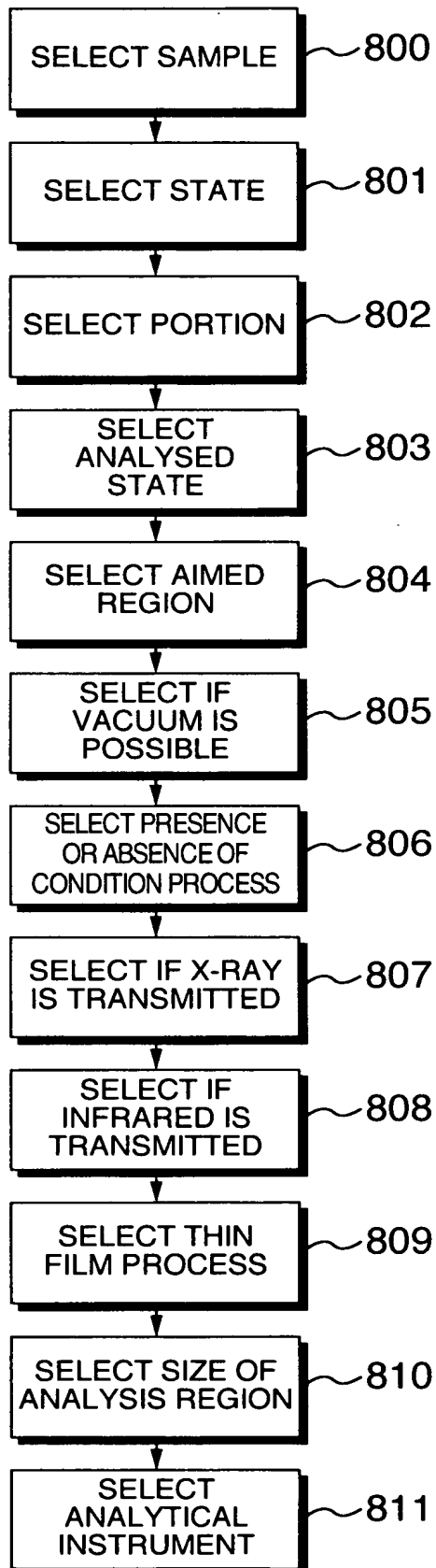


FIG. 15



099242-0000

FIG. 16

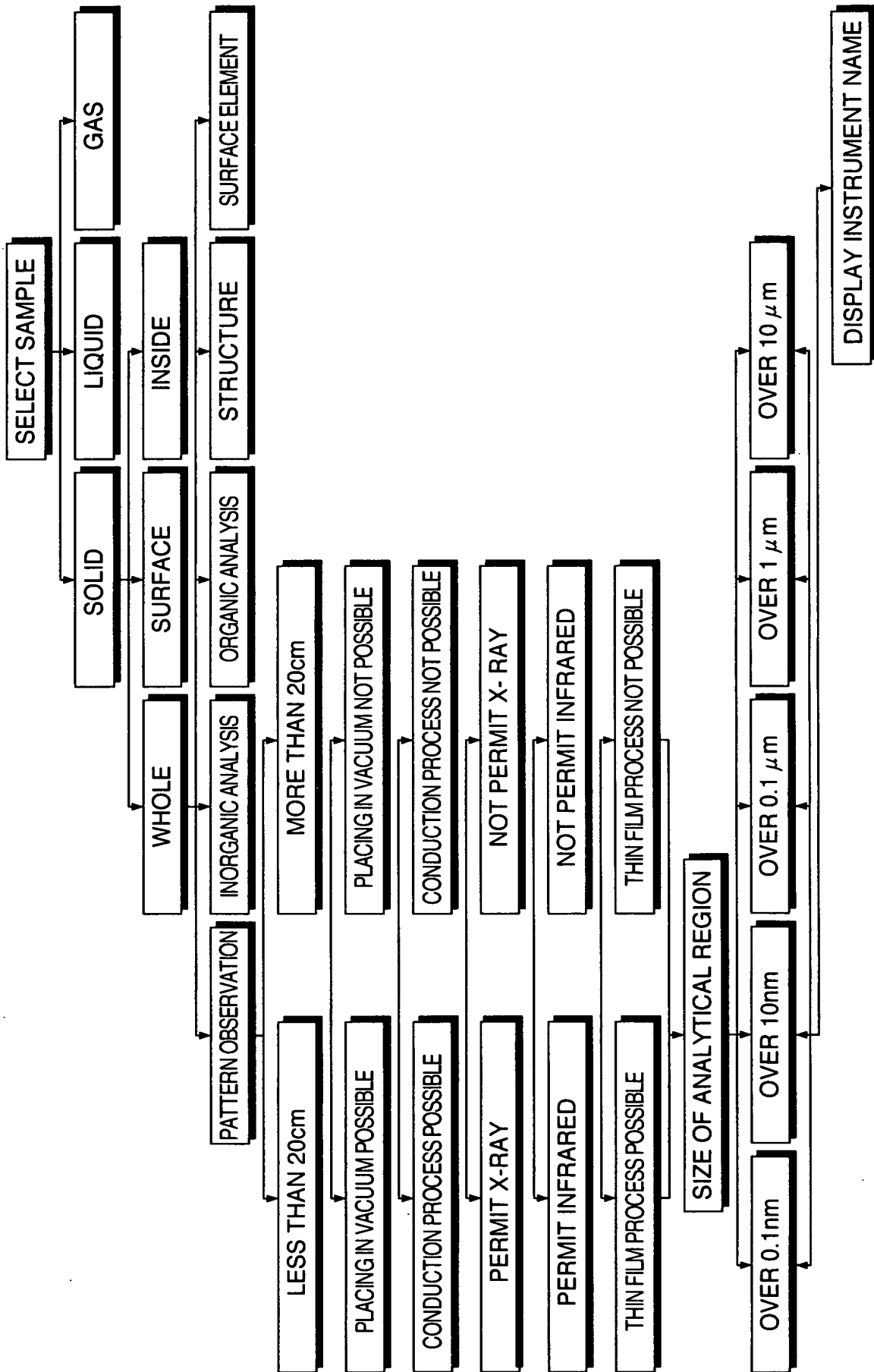


FIG. 17

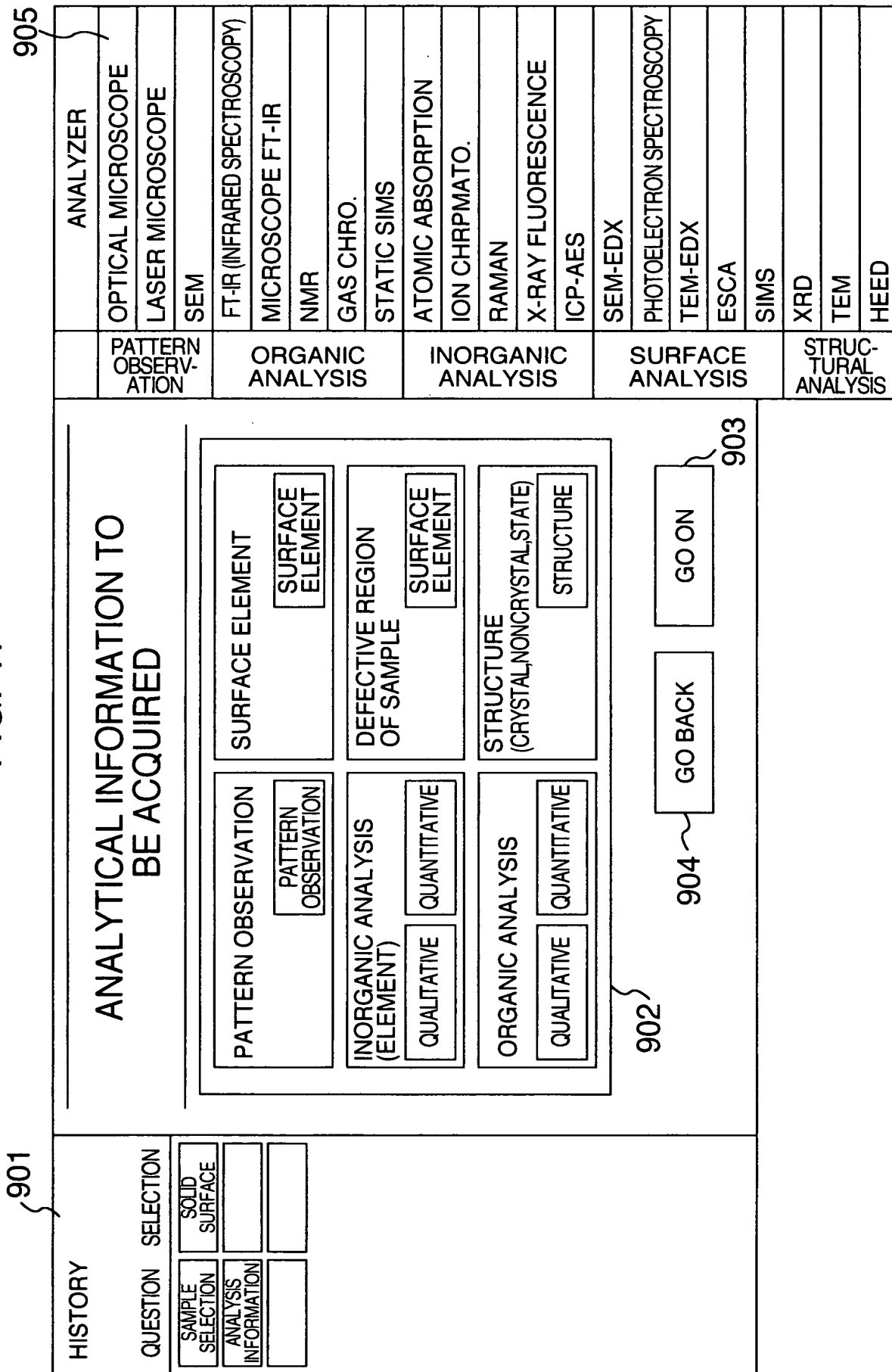


FIG. 19

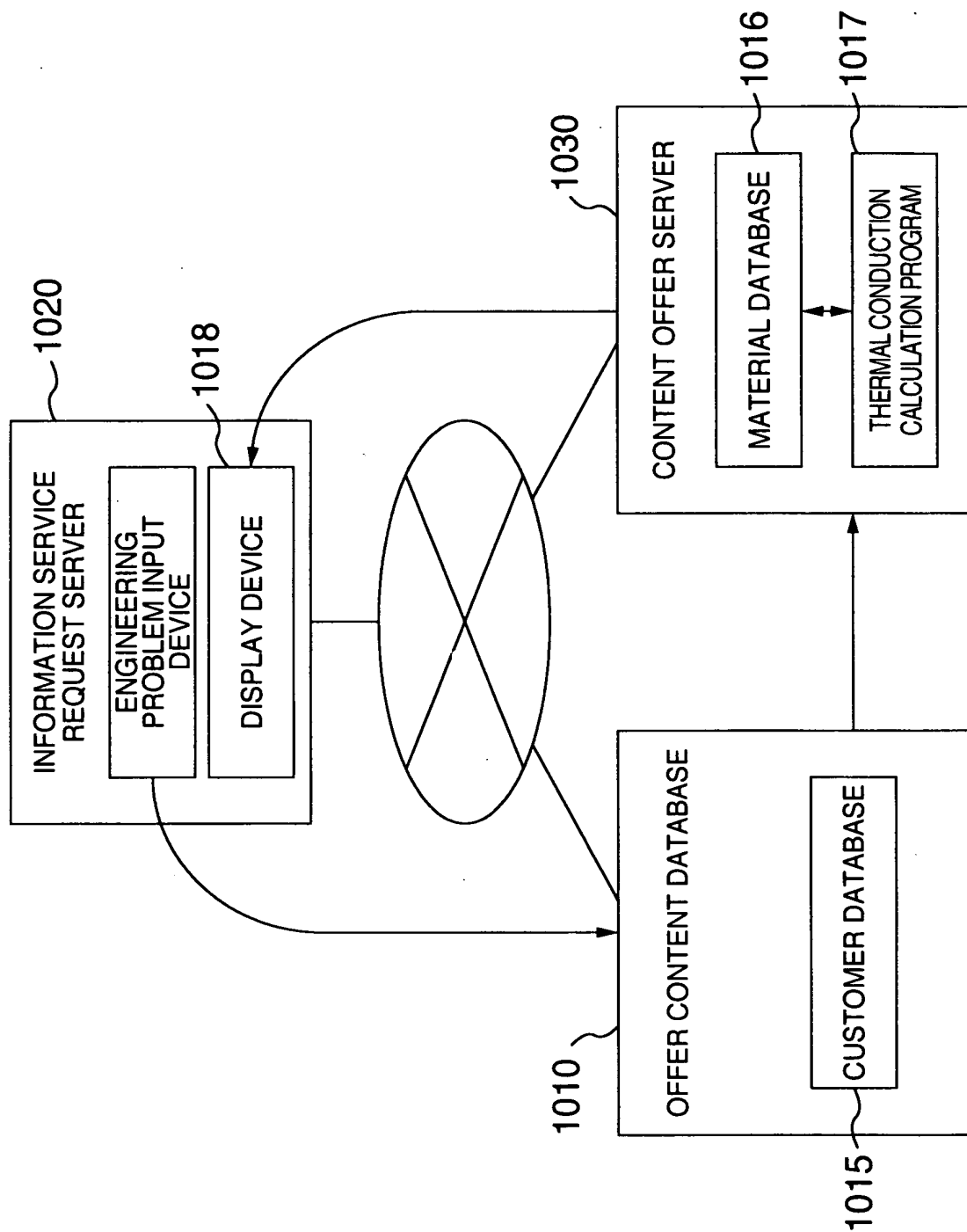
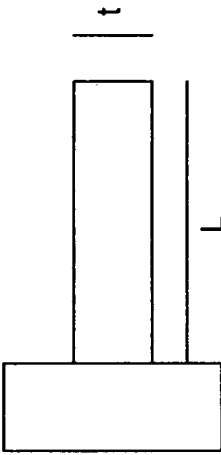


FIG. 20

THERMAL CONDUCTION ENGINEERING

ONE-DIMENSIONAL FIN CALCULATION

INPUT OF CALCULATION
CONDITION



INPUT DATA

L[mm]:FIN LENGTH	300
t[mm]:THICKNESS	2.0
B[mm]:THICKNESS	1000.0
Tb[°C]:FIN ROOT TEMP.	50.0
Ts[°C]:AMBIENT TEMP.	20.0
k[W/mk]:THERMAL CONDUCTIVITY	237.0
k[W/m ² k]:THERMAL CONDUCTIVITY	100.0
MATERIAL NAME	SS41

908

EXECUTE

RESET

FIG. 21

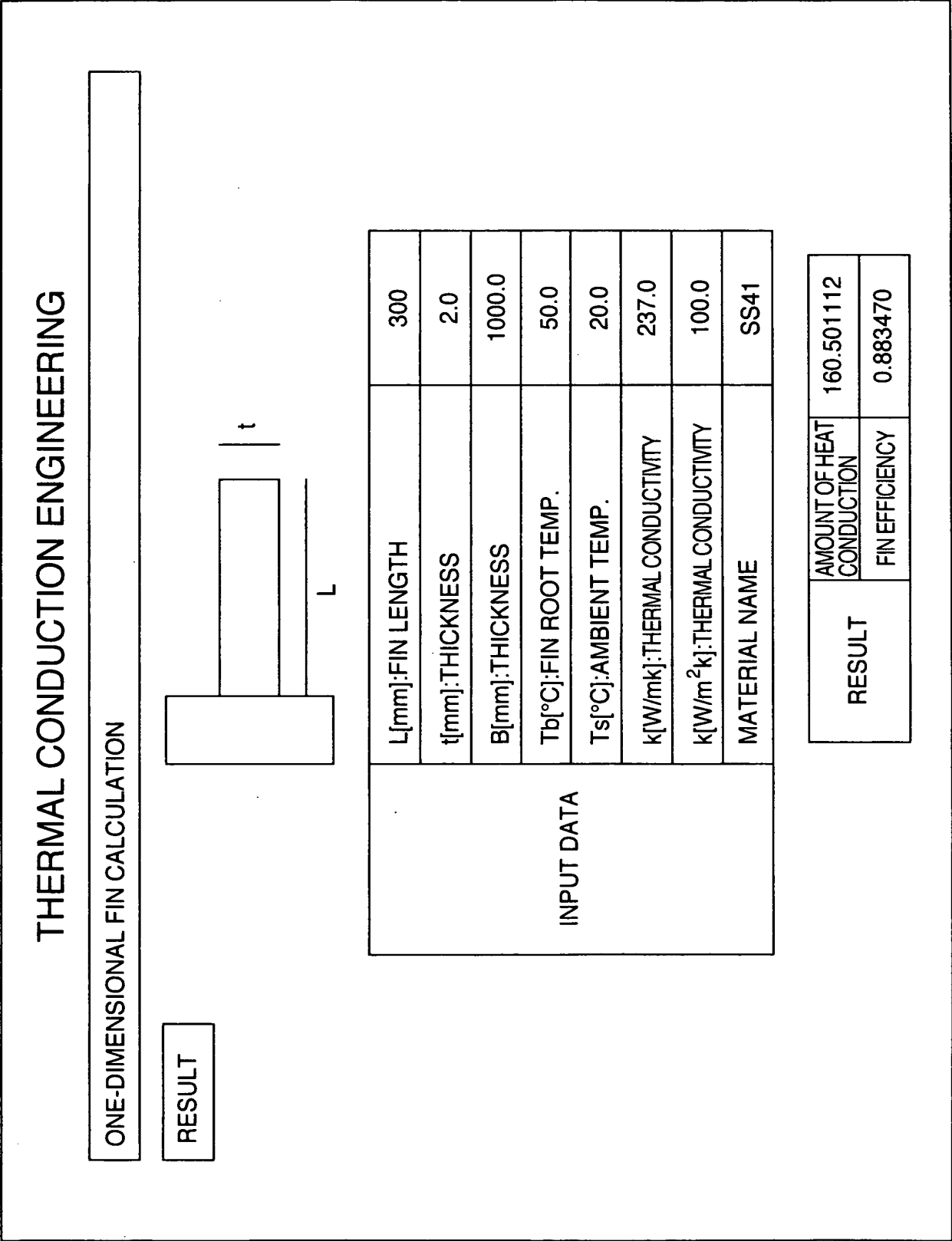


FIG. 22

CALCULATION OF FLEXURE, SHEARING STRESS,
BENDING MOMENT OF SIMPLE BEAM

